

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (canceled).

Claim 9 (Currently Amended):

An electroacoustical transducer comprising:

- a chassis (3);
- a rigid surface (10) rigidly attached to said chassis (3);
- a moving membrane (7), attached flexibly to said chassis (3) and positioned to face said rigid surface (10), with an air mass between said rigid surface (10) and said moving membrane (7), where in a distance between the rigid surface and the moving membrane increases in size from a center to a periphery; and

- a driving device (4,5,9,9b) to displace said moving membrane (7) in the direction of said rigid surface activated by a modulating electric current;

the displacement of said membrane (7) generating, by compression and expansion of said air mass, an acoustic wave, of which the direction of propagation (1) is essentially

perpendicular to the direction (2) of displacement of said membrane (7).

Claim 10. (Currently Amended):

An electroacoustical transducer as set forth in claim 9, wherein

said rigid surface (10) and said moving membrane (7) are configured in cylindrical symmetry about an axis that is parallel to the direction (2) of displacement of said moving membrane (7); and

~~the distance between said rigid surface (10) and said moving membrane (7) increases from the center of the periphery;~~

the resulting sound radiation ~~being~~ is omnidirectional in a plane perpendicular to said direction (2) of displacement of said moving membrane (7).

Claim 11 (Previously Presented):

An electroacoustical transducer as set forth in claim 9, wherein said rigid surface (10) is shaped in the form of a convex dome.

Claim 12 (Previously Presented):

An electroacoustical transducer according to claim 11, wherein said moving membrane (7) also is shaped in the form of a convex dome.

Claim 13 (Previously Presented):

An electroacoustical transducer as set forth in claim 11, wherein said moving membrane (7) is ring shaped.

Claim 14 (Previously Presented):

An electroacoustical transducer according to claim 9 comprising acoustic screens or baffles (12) arranged to be in a plane that is perpendicular to said moving membrane (7) and said rigid surface (10), in such a way as to limit the air mass contained between them, the resulting sound radiation being directional.

Claim 15 (Previously Presented):

An electroacoustical transducer as set forth in claim 9, comprising an acoustic horn that enables the improvement of the acoustic coupling between moving membrane (7) and the ambient air.

Claim 16 (Previously Presented):

An electroacoustical transducer as set forth in claim 9, wherein said device of driving is an electromagnetic (4,5,9), piezoelectric, (9b) or electrostatic device.

Claim 17 (Previously Presented):

An array consisting of multiple electroacoustical transducers as set forth in claim 9, each adapted to the reproduction of a determined range of frequencies, stacked on an axis that is parallel to the direction of displacement of said moving membrane (7).